

File 256:SoftBase:Reviews,Companies&Prods. 82-2003/Aug  
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Set	Items	Description
S1	42879	WINDOW? ? OR BOX?? ? OR FRAME OR FRAMES OR PANEL OR PANELS OR PANE OR PANES OR VIEWPORT? ? OR VIEW()PORT? ? OR SCREEN? ? OR DISPLAY? ? OR VIEW? ?
S2	1660	(MANY OR MULTI OR SEVERAL OR ALL OR NUMEROUS OR GROUP???? ? OR MULTIPLE OR MULTIPLICIT? OR PLURALIT? OR CLUSTER?) (2W)S1
S3	1336	(MULTITUD? OR VARIOUS OR SERIES OR COLLECTION? OR TWO OR S- ECOND OR NUMBER OR PAIR??? ? OR SET OR SETS OR ANOTHER OR THR- EE) (2W)S1
S4	53	MULTIWINDOW? ? OR MULTIVIEW? ? OR MULTIPANE?? ? OR MULTIFR- AME? ? OR MULTIDISPLAY? OR MULTISCREEN? OR MULTIVIEW?
S5	4413	SIZE? ? OR SIZING?
S6	2643	SCALE? ? OR SCALING?
S7	761	DIMENSION? ?
S8	263	S5:S7(3N) (ADJUST? OR CHANG??? ? OR MANIPULAT? OR CONFIGUR? OR RECONFIGUR? OR READJUST? OR REARRANG? OR RE()ARRANG? OR AL- TER?? ? OR ALTERAT? OR ALTERING)
S9	27	S5:S7(3N) (MODIFY? OR MODIFIE? ? OR MODIFICATION? OR REVIS?- ??? ? OR REDEFIN? OR RE()DEFIN?????? ?)
S10	431	RESIZ? OR RESCAL? OR AUTOSCAL? OR REDIMENSION? OR AUTODIME- NSION? OR AUTOSIZ?
S11	132	PROPORTION? ? OR ASPECT? ?(2N) (RATIO OR RATIOS)
S12	68	S2:S4 AND S8:S10
S13	2	S12 AND S11
S14	199	(S5 OR S7) (3N) (ADJUST? OR CHANG??? ? OR MANIPULAT? OR CONF- IGUR? OR RECONFIGUR? OR READJUST? OR REARRANG? OR RE()ARRANG? OR ALTER?? ? OR ALTERAT? OR ALTERING)
S15	22	(S5 OR S7) (3N) (MODIFY? OR MODIFIE? ? OR MODIFICATION? OR R- EVIS???? ? OR REDEFIN? OR RE()DEFIN?????? ?)
S16	410	RESIZ? OR REDIMENSION? OR AUTODIMENSION? OR AUTOSIZ?
S17	60	S2:S4 AND S14:S16
S18	5	S17 AND (S6 OR RESCAL? OR AUTOSCAL?)
S19	7	S13 OR S18
S20	1	S19/2001:2003
S21	6	S19 NOT S20

? t21/7/5-6

21/7/5

DIALOG(R)File 256:SoftBase:Reviews,Companies&Prods.  
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00087808 DOCUMENT TYPE: Review

PRODUCT NAMES: STiP Professional 2.1 Macintosh (599671)

TITLE: STiP Professional 2.1

AUTHOR: Heid, Jim

SOURCE: Macworld, v13 n4 p75(1) Apr 1996

ISSN: 0741-8647

HOME PAGE: <http://www.macworld.com>

RECORD TYPE: Review

REVIEW TYPE: Review

GRADE: C

MacVank's STiP Professional 2.1 multimedia authoring program shows promise,  
but still needs work. The program creates interactive titles for both

09/675,866

9/16/03

File 347:JAPIO Oct 1976-2003/May(Updated 030902)

(c) 2003 JPO & JAPIO

File 350:Derwent WPIX 1963-2003/UD,UM &UP=200359

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Set	Items	Description
S1	3400643	WINDOW? ? OR BOX?? ? OR FRAME OR FRAMES OR PANEL OR PANELS OR PANE OR PANES OR VIEWPORT? ? OR VIEW()PORT? ? OR SCREEN? ? OR DISPLAY? ? OR VIEW? ?
S2	39654	(MANY OR MULTI OR SEVERAL OR ALL OR NUMEROUS OR GROUP???? ? OR MULTIPLE OR MULTIPLICIT? OR PLURALIT? OR CLUSTER?) (2W)S1
S3	130438	(MULTITUD? OR VARIOUS OR SERIES OR COLLECTION? OR TWO OR S- ECOND OR NUMBER OR PAIR??? ? OR SET OR SETS OR ANOTHER OR THR- EE) (2W)S1
S4	2063	MULTIWINDOW? ? OR MULTIVIEW? ? OR MULTIPANE?? ? OR MULTIFR- AME? ? OR MULTIDISPLAY? OR MULTISCREEN? OR MULTIVIEW?
S5	958838	SIZE? ? OR SIZING?
S6	207889	DIMENSION? ?
S7	39251	S5:S6(3N) (ADJUST? OR CHANG??? ? OR MANIPULAT? OR CONFIGUR? OR RECONFIGUR? OR READJUST? OR REARRANG? OR RE()ARRANG? OR AL- TER?? ? OR ALTERAT? OR ALTERING)
S8	1812	S5:S6(3N) (MODIFY? OR MODIFIE? ? OR MODIFICATION? OR REVIS?- ??? ? OR REDEFIN? OR RE()DEFIN?????? ?)
S9	566	RESIZ? OR REDIMENSION? OR AUTODIMENSION? OR AUTOSIZ?
S10	189539	SCALE? ? OR SCALING? OR RESCAL???? ? OR AUTOSCAL?
S11	128991	PROPORTION? ? OR ASPECT? ?(2N) (RATIO OR RATIOS)
S12	1018	S2:S4 AND S7:S9
S13	25	S12 AND S10
S14	19	S12 AND S11
S15	43	S13:S14
S16	42	S15 NOT (GREY OR GRAY) (2N)SCAL???? ?
S17	42	IDPAT (sorted in duplicate/non-duplicate order)
S18	41	IDPAT (primary/non-duplicate records only)

? t18/9/1,4,7-9,11-13,16

18/9/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015344766 \*\*Image available\*\*

WPI Acc No: 2003-405704/200339

XRPX Acc No: N03-323612

**Storage medium providing various information and audio/video contents  
displayable in user interactive environment has interactive screen  
display files that correspond to different screen aspect ratios ,  
respectively**

Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU )

Inventor: CHUNG H; JUNG K; KIM B; JUNG G S; JUNG H G; KIM B J

Number of Countries: 035 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1307046	A2	20030502	EP 2002257292	A	20021021	200339 B
CA 2409130	A1	20030425	CA 2409130	A	20021022	200339
US 20030093816	A1	20030515	US 2002280127	A	20021025	200339
CN 1414554	A	20030430	CN 2002145881	A	20021017	200351
JP 2003189245	A	20030704	JP 2002307450	A	20021022	200353
KR 2003035757	A	20030509	KR 200212978	A	20020311	200358

Priority Applications (No Type Date): KR 200212978 A 20020311; KR 200166015  
A 20011025

File 348:EUROPEAN PATENTS 1978-2003/Aug W05

(c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20030911,UT=20030904

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Set	Items	Description
S1	989311	WINDOW? ? OR BOX?? ? OR FRAME OR FRAMES OR PANEL OR PANELS OR PANE OR PANES OR VIEWPORT? ? OR VIEW()PORT? ? OR SCREEN? ? OR DISPLAY? ? OR VIEW? ?
S2	69787	(MANY OR MULTI OR SEVERAL OR ALL OR NUMEROUS OR GROUP???? ? OR MULTIPLE OR MULTIPLICIT? OR PLURALIT? OR CLUSTER?)(2W)S1
S3	126268	(MULTITUD? OR VARIOUS OR SERIES OR COLLECTION? OR TWO OR S- ECOND OR NUMBER OR PAIR??? ? OR SET OR SETS OR ANOTHER OR THR- EE)(2W)S1
S4	1787	MULTIWINDOW? ? OR MULTIVIEW? ? OR MULTIPANE?? ? OR MULTIFR- AME? ? OR MULTIDISPLAY? OR MULTISCREEN? OR MULTIVIEW?
S5	604830	SIZE? ? OR SIZING?
S6	333413	DIMENSION? ?
S7	66568	S5:S6(3N)(ADJUST? OR CHANG??? ? OR MANIPULAT? OR CONFIGUR? OR RECONFIGUR? OR READJUST? OR REARRANG? OR RE()ARRANG? OR AL- TER?? ? OR ALTERAT? OR ALTERING)
S8	6567	S5:S6(3N)(MODIFY? OR MODIFIE? ? OR MODIFICATION? OR REVIS?- ??? ? OR REDEFIN? OR RE()DEFIN?????? ?)
S9	2768	RESIZ? OR REDIMENSION? OR AUTODIMENSION? OR AUTOSIZ?
S10	229866	SCALE? ? OR SCALING? OR RESCAL???? ? OR AUTOSCAL?
S11	243744	PROPORTION? ? OR ASPECT? ?(2N)(RATIO OR RATIOS)
S12	1809	S2:S4(S)S7:S9
S13	24	S12(25N)S11
S14	69	S12(25N)S10
S15	50600	(DISPLAY? OR VIEW? OR GRAPHIC? OR IMAGE?)(3N)(COMPLETE OR - ENTIRE OR TOTAL OR FULL OR WHOLE OR INTACT)
S16	74925	(S5:S6 OR S10)(5N)(DISPLAY? OR VIEW? OR GRAPHIC? OR IMAGE?)
S17	28	S14(S)S15:S16
S18	2469	IC='G09G-005'
S19	1	S14 AND S18
S20	10	S14/TI,AB,CM
S21	55	S13 OR S17 OR S19:S20
S22	40	S21 NOT (GREY OR GRAY)(2N)SCAL???? ?
S23	40	IDPAT (sorted in duplicate/non-duplicate order)
S24	40	IDPAT (primary/non-duplicate records only)

? t24/5,k/2-3,7

24/5,K/2 (Item 2 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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01572525

Storage medium adaptable to changes in screen aspect ratio and reproducing  
method thereof

Speichermedium zur Anpassung an Anderungen von Bildseitenverhaltnisse und  
Wiedergabeverfahren davon

Support de stockage adaptable a des changements de formats d'ecran et  
methode d'enregistrement attenante

PATENT ASSIGNEE:

SAMSUNG ELECTRONICS CO., LTD., (1093728), 416, Maetan-dong, Paldal-gu,  
Suwon-City, Kyungki-do, (KR), (Applicant designated States: all)

INVENTOR:

Chung, Hyun-kwon, 104-906 Dongbo Apt., 45 Tanbeol-ri, Gwangju-eup,  
Gwangju-gun, Gyeonggi-do, (KR)

Jung, Kil-Soo, 107-707 Hanshin Apt., 485 Byungjeom-ri, Taeon-eup,

File 9:Business & Industry(R) Jul/1994-2003/Sep 16  
 (c) 2003 Resp. DB Svcs.  
 File 16:Gale Group PROMT(R) 1990-2003/Sep 16  
 (c) 2003 The Gale Group  
 File 47:Gale Group Magazine DB(TM) 1959-2003/Sep 16  
 (c) 2003 The Gale group  
 File 148:Gale Group Trade & Industry DB 1976-2003/Sep 17  
 (c)2003 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
 (c) 1999 The Gale Group  
 File 275:Gale Group Computer DB(TM) 1983-2003/Sep 16  
 (c) 2003 The Gale Group  
 File 621:Gale Group New Prod.Annou.(R) 1985-2003/Sep 17  
 (c) 2003 The Gale Group  
 File 636:Gale Group Newsletter DB(TM) 1987-2003/Sep 16  
 (c) 2003 The Gale Group  
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Set	Items	Description
S1	6025995	WINDOW? ? OR BOX?? ? OR FRAME OR FRAMES OR PANEL OR PANELS OR PANE OR PANES OR VIEWPORT? ? OR VIEW()PORT? ? OR SCREEN? ? OR DISPLAY? ? OR VIEW? ?
S2	169117	(MANY OR MULTI OR SEVERAL OR ALL OR NUMEROUS OR GROUP???? ? OR MULTIPLE OR MULTIPLICIT? OR PLURALIT? OR CLUSTER?)(2W)S1
S3	292389	(MULTITUD? OR VARIOUS OR SERIES OR COLLECTION? OR TWO OR S- ECOND OR NUMBER OR PAIR??? ? OR SET OR SETS OR ANOTHER OR THR- EE)(2W)S1
S4	4864	MULTIWINDOW? ? OR MULTIVIEW? ? OR MULTIPANE?? ? OR MULTIFR- AME? ? OR MULTIDISPLAY? OR MULTISCREEN? OR MULTIVIEW?
S5	2410693	SIZE? ? OR SIZING?
S6	260549	DIMENSION? ?
S7	51003	S5:S6(3N)(ADJUST? OR CHANG??? ? OR MANIPULAT? OR CONFIGUR? OR RECONFIGUR? OR READJUST? OR REARRANG? OR RE()ARRANG? OR AL- TER?? ? OR ALTERAT? OR ALTERING)
S8	3728	S5:S6(3N)(MODIFY? OR MODIFIE? ? OR MODIFICATION? OR REVIS?- ??? ? OR REDEFIN? OR RE()DEFIN?????? ?)
S9	20623	RESIZ? OR REDIMENSION? OR AUTODIMENSION? OR AUTOSIZ?
S10	1171527	SCALE? ? OR SCALING? OR RESCAL???? ? OR AUTOSCAL?
S11	266550	PROPORTION? ? OR ASPECT? ?(2N)(RATIO OR RATIOS)
S12	2188	S2:S4(S)S7:S9
S13	35	S12(S)S11
S14	128	S12(S)S10
S15	160611	(DISPLAY? OR VIEW? OR GRAPHIC? OR IMAGE?)(3N)(COMPLETE OR - ENTIRE OR TOTAL OR FULL OR WHOLE OR INTACT)
S16	19	S14(S)S15
S17	47	S13 OR S16
S18	13	S17/2001:2003
S19	34	S17 NOT S18
S20	21	RD (unique items)

? t20/3,k/2-3,7

20/3,K/2 (Item 2 from file: 16)  
 DIALOG(R)File 16:Gale Group PROMT(R)  
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04480389 Supplier Number: 46577450 (USE FORMAT 7 FOR FULLTEXT)  
**Fractal Design Unveils Detailer**  
 News Release, pN/A  
 July 29, 1996  
 Language: English Record Type: Fulltext  
 Document Type: Magazine/Journal; Trade

File 696:DIALOG Telecom. Newsletters 1995-2003/Sep 16  
(c) 2003 The Dialog Corp.  
File 15:ABI/Inform(R) 1971-2003/Sep 16  
(c) 2003 ProQuest Info&Learning  
File 484:Periodical Abs Plustext 1986-2003/Sep W1  
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File 813:PR Newswire 1987-1999/Apr 30  
(c) 1999 PR Newswire Association Inc  
File 613:PR Newswire 1999-2003/Sep 17  
(c) 2003 PR Newswire Association Inc  
File 635:Business Dateline(R) 1985-2003/Sep 16  
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File 810:Business Wire 1986-1999/Feb 28  
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File 610:Business Wire 1999-2003/Sep 17  
(c) 2003 Business Wire.  
File 369:New Scientist 1994-2003/Sep W1  
(c) 2003 Reed Business Information Ltd.  
File 370:Science 1996-1999/Jul W3  
(c) 1999 AAAS  
File 20:Dialog Global Reporter 1997-2003/Sep 17  
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(c) 2003 McGraw-Hill Co. Inc  
File 634:San Jose Mercury Jun 1985-2003/Sep 14  
(c) 2003 San Jose Mercury News  
File 647:CMP Computer Fulltext 1988-2003/Aug W4  
(c) 2003 CMP Media, LLC  
File 674:Computer News Fulltext 1989-2003/Sep W2  
(c) 2003 IDG Communications  
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Set	Items	Description
S1	6253101	WINDOW? ? OR BOX?? ? OR FRAME OR FRAMES OR PANEL OR PANELS OR PANE OR PANES OR VIEWPORT? ? OR VIEW()PORT? ? OR SCREEN? ? OR DISPLAY? ? OR VIEW? ?
S2	129738	(MANY OR MULTI OR SEVERAL OR ALL OR NUMEROUS OR GROUP???? ? OR MULTIPLE OR MULTIPLICIT? OR PLURALIT? OR CLUSTER?)(2W)S1
S3	243116	(MULTITUD? OR VARIOUS OR SERIES OR COLLECTION? OR TWO OR S- ECOND OR NUMBER OR PAIR??? ? OR SET OR SETS OR ANOTHER OR THR- EE)(2W)S1
S4	2820	MULTIWINDOW? ? OR MULTIVIEW? ? OR MULTIPANE?? ? OR MULTIFR- AME? ? OR MULTIDISPLAY? OR MULTISCREEN? OR MULTIVIEW?
S5	1958107	SIZE? ? OR SIZING?
S6	278540	DIMENSION? ?
S7	33345	S5:S6(3N)(ADJUST? OR CHANG??? ? OR MANIPULAT? OR CONFIGUR? OR RECONFIGUR? OR READJUST? OR REARRANG? OR RE()ARRANG? OR AL- TER?? ? OR ALTERAT? OR ALTERING)
S8	2412	S5:S6(3N)(MODIFY? OR MODIFIE? ? OR MODIFICATION? OR REVIS?- ??? ? OR REDEFIN? OR RE()DEFIN?????? ?)
S9	8379	RESIZ? OR REDIMENSION? OR AUTODIMENSION? OR AUTOSIZ?
S10	1229275	SCALE? ? OR SCALING? OR RESCAL???? ? OR AUTOSCAL?
S11	362308	PROPORTION? ? OR ASPECT? ?(2N)(RATIO OR RATIOS)
S12	697	S2:S4(S)S7:S9
S13	8	S12(S)S11
S14	34	S12(S)S10
S15	38	S13:S14
S16	12	S15/2001:2003
S17	26	S15 NOT S16
S18	20	RD (unique items)

File 2:INSPEC 1969-2003/Sep W1  
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File 6:NTIS 1964-2003/Sep W2  
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File 8:EI Compendex(R) 1970-2003/Sep W1  
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File 34:SciSearch(R) Cited Ref Sci 1990-2003/Sep W1  
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File 35:Dissertation Abs Online 1861-2003/Aug  
(c) 2003 ProQuest Info&Learning  
File 65:Inside Conferences 1993-2003/Sep W2  
(c) 2003 BLDSC all rts. reserv.  
File 94:JICST-EPlus 1985-2003/Sep W2  
(c)2003 Japan Science and Tech Corp(JST)  
File 95:TEME-Technology & Management 1989-2003/Aug W4  
(c) 2003 FIZ TECHNIK  
File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Aug  
(c) 2003 The HW Wilson Co.  
File 111:TGG Natl.Newspaper Index(SM) 1979-2003/Sep 15  
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File 144:Pascal 1973-2003/Sep W1  
(c) 2003 INIST/CNRS  
File 202:Info. Sci. & Tech. Abs. 1966-2003/Sep 16  
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(c) 2003, EBSCO Pub.  
File 266:FEDRIP 2003/Jul  
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File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info  
File 483:Newspaper Abs Daily 1986-2003/Sep 16  
(c) 2003 ProQuest Info&Learning  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group  
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Set	Items	Description
S1	2705840	WINDOW? ? OR BOX?? ? OR FRAME OR FRAMES OR PANEL OR PANELS OR PANE OR PANES OR VIEWPORT? ? OR VIEW()PORT? ? OR SCREEN? ? OR DISPLAY? ? OR VIEW? ?
S2	40109	(MANY OR MULTI OR SEVERAL OR ALL OR NUMEROUS OR GROUP???? ? OR MULTIPLE OR MULTIPLICIT? OR PLURALIT? OR CLUSTER?) (2W)S1
S3	99272	(MULTITUD? OR VARIOUS OR SERIES OR COLLECTION? OR TWO OR S- ECOND OR NUMBER OR PAIR??? ? OR SET OR SETS OR ANOTHER OR THR- EE) (2W)S1
S4	3952	MULTIWINDOW? ? OR MULTIVIEW? ? OR MULTIPANE?? ? OR MULTIFR- AME? ? OR MULTIDISPLAY? OR MULTISCREEN? OR MULTIVIEW?
S5	2308955	SIZE? ? OR SIZING?
S6	1746928	SCALE? ? OR SCALING?
S7	870438	DIMENSION? ?
S8	96625	S5:S7(3N) (ADJUST? OR CHANG??? ? OR MANIPULAT? OR CONFIGUR? OR RECONFIGUR? OR READJUST? OR REARRANG? OR RE()ARRANG? OR AL- TER?? ? OR ALTERAT? OR ALTERING)
S9	21208	S5:S7(3N) (MODIFY? OR MODIFIE? ? OR MODIFICATION? OR REVIS?- ??? ? OR REDEFIN? OR RE()DEFIN?????? ?)
S10	8761	RESIZ? OR RESCAL? OR AUTOSCAL? OR REDIMENSION? OR AUTODIME- NSION? OR AUTOSIZ?
S11	374254	PROPORTION? ? OR ASPECT? ?(2N) (RATIO OR RATIOS)
S12	747	S2:S4 AND S8:S10
S13	17	S12 AND S11

S14 69529 (S5 OR S7) (3N) (ADJUST? OR CHANG??? ? OR MANIPULAT? OR CONF-  
 IGUR? OR RECONFIGUR? OR READJUST? OR REARRANG? OR RE()ARRANG?  
 OR ALTER?? ? OR ALTERAT? OR ALTERING)  
 S15 7707 (S5 OR S7) (3N) (MODIFY? OR MODIFIE? ? OR MODIFICATION? OR R-  
 EVIS???? ? OR REDEFIN? OR RE()DEFIN???? ?)  
 S16 2244 RESIZ? OR REDIMENSION? OR AUTODIMENSION? OR AUTOSIZ?  
 S17 557 S2:S4 AND S14:S16  
 S18 62 S17 AND (S6 OR RESCAL? OR AUTOSCAL?)  
 S19 79 S13 OR S18  
 S20 15 S19/2001:2003  
 S21 64 S19 NOT S20  
 S22 47 RD (unique items)  
 ? t22/7/2,4,9,11,15,17

22/7/2 (Item 2 from file: 2)  
 DIALOG(R) File 2:INSPEC  
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6071760 INSPEC Abstract Number: B9812-6140C-390, C9812-1250-200  
**Title: Constrained active region models for fast tracking in color image sequences**

Author(s): Ivins, J.; Porrill, J.  
 Author Affiliation: Artifical Intelligence Vision Res. Unit, Sheffield Univ., UK  
 Journal: Computer Vision and Image Understanding vol.72, no.1 p. 54-71

Publisher: Academic Press,  
 Publication Date: Oct. 1998 Country of Publication: USA  
 CODEN: CUIUF4 ISSN: 1077-3142  
 SICI: 1077-3142(199810)72:1L:54:CARM;1-D  
 Material Identity Number: D165-98011  
 U.S. Copyright Clearance Center Code: 1077-3142/98/\$25.00  
 Language: English Document Type: Journal Paper (JP)  
 Treatment: Applications (A); Practical (P)

Abstract: Image segmentation is a fundamental problem in computer vision, for which deformable models offer a partial solution. Most deformable models work by performing some kind of edge detection; complementary region growing methods have not often been used. As a result, deformable models that track regions rather than edges have yet to be developed to a great extent. Active region models are a relatively new type of deformable model driven by a region energy that is a function of the statistical characteristics of an image. This paper describes the use of constrained active region models for frame-rate tracking in color video images on widely available computer hardware. Two of the many color representations now in use are reviewed for this purpose: the intensity-based RGB space and the more intuitive HSV space. Normalized RGB, which is essentially a measure of hue and saturation, emerges as the preferred representation because it is invariant to illumination changes and can be obtained from **many frame** -grabbers via a simple fast software transformation. Three types of motion are examined for constraining deformable models: rigid models can only translate and rotate to fit image features; conformal models can also **change size** ; affine models exhibit two kinds of shearing in addition to the other components. Two methods are described for producing affine motion, given the desired unconstrained motion calculated by searching for local energy minima lying perpendicular to the model boundary. An existing method, based on iterative gradient descent, computes translating, rotating, **scaling** , and shearing forces which can be combined to produce affine and other types of motion. A faster, more accurate method uses least-squares minimization to approximate the desired motion; with this method it is also possible to derive specific equations for rigid and conformal motion and to correct for the aperture problem associated with